

Table S3. Selected chemical characteristics of stream sites in the Fishing Brook, NY and McTier Creek, SC from which macroinvertebrates and fish were collected for mercury analyses. Chemical data are from water samples collected under base-flow conditions during April - November in 2007-

Site abbreviation	Stream site name	USGS Station	Spring FMeHg (ng/L)			Spring DOC (mg/L)			Spring pH			Summer FMeHg (ng/L)			Summer DOC (mg/L)			Summer pH			Fall FMeHg (ng/L)			Fall DOC (mg/L)			Fall pH		
			n	mean	sd	n	mean	sd	n	mean	sd	n	mean	sd	n	mean	sd	n	mean	sd	n	mean	sd	n	mean	sd	n	mean	sd
F1	Fishing Brook @ 28N nr Long Lake, NY	01311990	2	0.14	0.01	2	5.70	0.14	2	6.5	0.5	2	0.30	0.11	2	9.70	2.97	2	6.6	0.6	2	0.23	0.04	2	10.60	3.25	2	6.2	0.4
F2	Fishing Brook above County Line Flow near Long Lake, NY	0131199040	2	0.21	0.02	2	6.30	0.57	2	6.5	0.6	2	0.31	0.05	2	10.10	5.09	2	6.5	0.5	2	0.31	0.02	2	10.20	2.40	2	6.6	0.2
F3	Fishing Brook (County Line Flow) near Newcomb, NY	0131199050	3	0.10	0.05	3	7.57	1.91	3	6.3	0.6	5	0.22	0.13	5	9.10	1.66	5	6.8	0.7	3	0.16	0.06	3	8.07	0.95	3	6.9	0.1
PT	Pickwacket Pond Outlet near Long Lake, NY	0131199035	2	0.15	0.06	2	4.80	0.14	2	6.5	0.4	2	0.17	0.11	2	6.40	3.68	2	7.1	0.4	2	0.18	0.09	2	9.55	2.33	2	6.7	0.4
S1	Sixmile Brook @ 28N near Long Lake, NY	0131199010	2	0.18	0.01	2	8.10	1.41	2	6.5	0.7	2	0.54	0.43	2	13.25	9.69	2	7.2	1.0	2	0.35	0.23	2	16.70	5.94	2	6.2	0.5
S2	Sixmile Brook near Long Lake, NY	0131199022	5	0.24	0.06	5	10.48	1.64	5	6.1	0.3	6	1.00	0.34	6	16.33	3.83	6	6.5	0.8	2	0.39	0.28	2	13.45	2.76	2	6.1	0.1
ST	Sixmile Brook Tributary near Long Lake, NY	0131199020	1	0.19		1	5.90		1	7.0		2	0.60	0.41	2	10.65	2.47	2	7.4	1.1	2	0.23	0.23	2	8.55	1.20	2	6.8	0.2
UT	Unnamed Tributary to County Line Flow near Long Lake, NY	0131199045	2	<0.04	0.00	2	2.40	0.14	2	6.1	0.6	2	<0.04	0.00	2	2.75	1.06	2	6.8	0.8	2	<0.04	0.00	2	2.75	0.64	2	6.7	0.1
G1	Gully Creek Bridge on Old Shoals Rd near Monetta, SC	3345100813509	3	0.18	0.09	3	5.87	0.99	3	5.1	0.3	1	0.23		1	3.70		1	4.6		2	0.10	0.04	2	4.30	0.00	2	4.7	0.7
G2	Gully Creek at McTier Creek	3344250813538	3	0.12	0.05	3	6.13	1.29	3	5.2	0.2	1	0.11		1	4.70		1	2.9		1	0.05	0.01	2	4.10	0.00	2	5.2	0.2
M1	McTier Creek near Monetta, SC	02172300	3	0.18	0.10	3	7.43	1.01	3	5.5	0.4	1	0.22		1	5.80		1	5.0		2	0.05	0.01	1	4.50		2	5.7	0.1
M2	McTier Creek near New Holland, SC	02172305	7	0.14	0.04	7	7.70	1.78	7	5.3	0.3	8	0.14	0.04	8	7.25	1.66	8	4.6	0.4	3	0.06	0.03	3	7.77	5.40	3	5.1	0.8